

Glass Finishing

We deliver:

- Enhanced glass quality
- Greater efficiency
- Improved productivity
- Supply reliability



The Industry Challenge

Glass is a fully recyclable and sustainable material used in packaging and tableware manufacturing. Due to population and infrastructure growth, demand for glass has been on the rise. As a result, increasing efficiency challenges have created major obstacles to the continued sustainability and productivity of this popular material.

Quality is another key challenge. When glass articles exit a forming chain, they're often plagued with imperfections, such as sharp edges, shear marks and mold joints. More than ever, manufacturers are looking for a reliable process to alleviate these defects and improve production yields.

Your Solution

A comprehensive gas solution designed for your specific needs, **Nexelia™ for Glass Finishing** combines the best of our gases, application technologies and expert support.

It transforms plain-looking glass containers into prestige final products while ensuring outstanding performance, safety and environmental protection.

As with all solutions under the Nexelia™ brand, we work closely with you to define your needs and targets, and we commit to delivering them.

Your Advantages

▪ Increased value of your glass articles

Thanks to its localized glass-remelting treatment, **Nexelia™ for Glass Finishing** enables the superficial remelting of the glass article to:

- Eliminate any forming defects with removal of marks and sharp edges
- Add brilliance, transparency, brightness

▪ Fuel savings up to 80%

With its oxy flame thermal action, **Nexelia™ for Glass Finishing** enables fast glass reheating after the forming process. The oxy-gas offers faster firing time for each article, ensuring a reduction in fuel consumption by as much as 80%.

▪ Reduced hazardous emissions

Compliance with environmental and safety regulations has allowed for reduced costs and constraints. Combustion of natural gas during reburning produces CO₂ and other harmful emissions. Glass makers must therefore adapt their process to comply with increasingly stringent regulations.

▪ Fume reduction and no noise

Offering a quieter, more comfortable environment, **Nexelia™ for Glass Finishing** eliminates noise and reduces fumes 10-fold.

▪ Higher production rate

Better quality means higher production. **Nexelia™ for Glass Finishing** significantly increases quality by reducing the number of defects and rejects, thus increasing production rate.

- **Fast polishing time**

No need to waste precious time during the finishing phase. **Nexelia™ for Glass Finishing** with high oxy flame temperature delivers rapid in-line polishing.

- **In-line implementation**

You can also save on CAPEX thanks to the solution's compact, in-line configuration possibilities. Whether at a fixed workstation or while moving along the line, it keeps up with your high manufacturing speeds.

- **Optimal safety and efficiency**

Nexelia™ for Glass Finishing provides an auto-controlled oxy-combustion solution with high-performance equipment.

- **Total reliability**

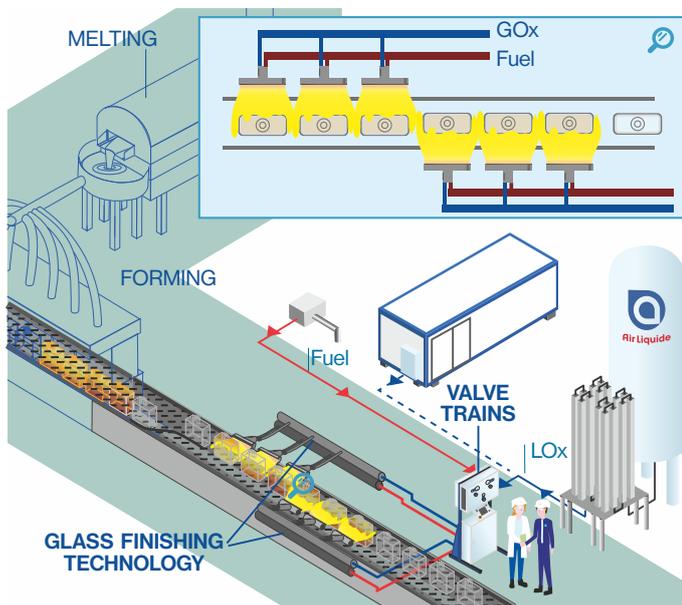
Proven with many customers, all our gas-application equipment is designed for heavy-duty operations. We define your gas needs and availability requirement together and ensure full supply via remote monitoring of your gas consumption.

- **Improved flexibility**

Nexelia™ for Glass Finishing lets you refine glass articles of various shapes and sizes.

Core Features

Nexelia™ for Glass Finishing consists of:



- **Oxygen supply adapted to your need:**

Liquid oxygen supply (LOx) or low-pressure gaseous state on-site generation (FLOXAL O₂). FLOXAL, our competitive on-site supply offer, provides the required quantity of oxygen (O₂) according to all your needs.

- **State-of-the-art application technology:**

A full range of burners adapted to the specific geometries of your products.

The valve trains are automated control systems to monitor the oxy-fuel burners and their supply systems.

- **Process expertise and service:**

Our worldwide network of glass experts supports you at every step of your project, including auditing your process, training your operators and designing your installation and solutions according to your needs. They can also oversee your full implementation, including commissioning, monitoring and maintenance. All of our technologies are easily and reliably installed by our teams.

We also assist you with risk analysis according to your local regulations.

Case Study

Fuel savings up to 80% compared to Aero flame

Objective:

80% reduction in operating expenditures

Case study #1

Holloware	Length	Time	Natural Gas	Oxygen	Savings
Air combustion	2 m	18 s	25 m ³ /h		76%
Oxy-combustion	0.5 m	4 s	6 m ³ /h	14 m ³ /h	

Case study #2

Plates and dishes	Natural Gas	Oxygen	Savings
Air combustion with oxygen	50 m ³ /h	6 m ³ /h	78%
Oxy-combustion	11 m ³ /h	22 m ³ /h	

Related Offers

- **Nexelia™ for Melting-Heat Oxy-Combustion**
- **Nexelia™ for Melting Oxy-Boosting**
- **Nexelia™ for Melting Oxy-Combustion**

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